

WHAT IS CLAIMED IS:

1. A fan guard adapted to be used with at least one heat-dissipating device with a plurality of rotor blades for supercharging an airflow discharging from said heat-dissipating device, comprising:

a frame; and

5 a set of guard blades arranged inside said frame, wherein said guard blades are arranged relative to said rotor blades to supercharge an airflow out of said heat-dissipating device.

2. The fan guard according to claim 1, wherein said fan guard is disposed on an airflow outlet side of said heat-dissipating device.

3. The fan guard according to claim 1, wherein said fan guard is disposed on an airflow inlet side of said heat-dissipating device.

4. The fan guard according to claim 3, further comprising another frame and another set of guard blades to be disposed on an airflow outlet side of said heat-dissipating device.

5. The fan guard according to claim 1, wherein said fan guard is disposed on a system frame in which said heat-dissipating device is disposed.

6. The fan guard according to claim 1, wherein each of said guard blades has a cross-sectional shape selected from a group essentially consisting of plate, triangle, trapezoid and wing.

7. The fan guard according to claim 1, wherein each of said guard blades has at least one selected from a group essentially consisting of a curved face, an arcuate face, a curve and an arc.

8. The fan guard according to claim 1, wherein each of said guard blades has a cross-sectional shape with a linear central line and one of a curve and an arc line.

9. The fan guard according to claim 1, wherein each of said guard blades has a shape substantially similar to those of said rotor blades.

10. The fan guard according to claim 1, wherein said frame of said fan guard is integrally formed with a main frame of said heat-dissipating device.

11. The fan guard according to claim 1, wherein said guard blades are integrally formed with said frame.

12. A heat-dissipating device comprising:
a rotor device having a plurality of rotor blades; and
a fan guard coupled to said rotor device and having a frame and a plurality of guard blades arranged inside said frame;
wherein said guard blades are arranged relative to said rotor blades to supercharge an airflow out of said heat-dissipating device.

13. The heat-dissipating device according to claim 12 wherein said guard blades are arranged upstream of said rotor blades of said rotor device.

14. The heat-dissipating device according to claim 12 wherein said guard blades are arranged downstream of said rotor blades of said rotor device.

15. A composite heat-dissipating system comprising:
at least one fan guard respectively having a frame and a set of guard blades arranged inside said frame; and

at least one heat-dissipating device respectively having a first rotor device with a
5 plurality of rotor blades;

wherein said guard blades are arranged relative to said rotor blades of said at least one heat-dissipating device to supercharge an airflow out of said at least one heat-dissipating device.

16. The composite heat-dissipating system according to claim 15, wherein each of said guard blades has a shape substantially similar to those of said rotor blades of said at least one heat-dissipating device.

17. The composite heat-dissipating system according to claim 15, wherein said frame of said fan guard and a main frame of said at least one heat-dissipating device are integrally formed together.

18. The composite heat-dissipating system according to claim 15, wherein said at least one fan guard is arranged upstream of said rotor blades of said at least one heat-dissipating device.

19. The composite heat-dissipating system according to claim 15, wherein said at least one fan guard is arranged downstream of said rotor blades of said at least one heat-dissipating device.

20. The composite heat-dissipating system according to claim 15, wherein said at least one fan guard is arranged between any two of said at least one heat-dissipating device.

21. The composite heat-dissipating system according to claim 15, wherein said at least one heat-dissipating device further includes:

a main frame surrounding said first rotor device; and

a plurality of guard blades radially arranged inside said main frame;

5 wherein each of said guard blades of said at least one heat-dissipating device has a shape substantially similar to those of said rotor blades and an arrangement relative to said rotor blades for allowing a tangential velocity of an air outflow from said heat-dissipating device to be transformed into a static pressure.

22. The composite heat-dissipating system according to claim 15, wherein said at least one heat-dissipating device further includes:

a main frame;

a second rotor device with a plurality of rotor blades; and

5 a support mounted within said main frame for supporting said first and second rotor devices;

wherein said first and second rotor devices are connected in series in the axial direction.

23. The composite heat-dissipating system according to claim 15, wherein one pair of said at least one fan guard and said at least one heat-dissipating device are connected in series and assembled with another pair of said at least one fan guard and said at least one heat-dissipating device in parallel.